

Rebuild Hawaii Consortium Meeting

June 24, 2004

Notes

You can find copies of these notes and presentations on the Internet at

<http://www.hawaii.gov/dbedt/ert/rebuild/news.html>.

Attendees:

AIA Committee on the Environment—Purnima McCutcheon

CH Guernsey—Scott Bly

City & County of Honolulu—Allyn Lee

Colliers Monroe Friedlander—Robert Martin, Melissa Ibanez

Commonwealth Heritage Corporation—Kekai K. Stephens, Charlotte Vick

County of Hawaii—Ray Carr

County of Kauai—Glenn Sato

Department of Business, Economic Development & Tourism (DBEDT) —, Liz Raman, Steve Alber, Priscilla Thompson, Carilyn Shon

Department of Education—Ray Minami, Brenda Lowrey

Division of Consumer Advocacy—John Cole, Brysen Poulton

Eco-Lite—Tom Brennan

Energy Conservation Hawaii—Darren Kimura

Hawaii Army National Guard—John K. Hao Sr.

Hawaiian Electric Company, Inc. (HECO) — Jim Maskrey, Sam Nichols, Tom Van Liew, Derek Sonoda, Steve Luckett, Norris Creveston

Housing and Community Development Corporation of Hawaii—Kevin Funasaki

HSI—Bill Short

IES Hawaii Chapter—Howard Wiig

Joots Foundation—Kevin Vaccarello

Kauai Island Utility Cooperative (KIUC)—Joe McCawley

Marine Corps Base Hawaii—Steve Butala, Bill Nutting

Maui Montessori School—Cindy Lawrence

Mullahey, Mike—Consultant

Navigant Consulting (Sacramento, CA)—Laurie Park

Navy Region Pacific—Eric Kawamoto, Kevin Saito

Queen's Medical Center—Ron Tolleson

Scheibert Energy—Lourdes Scheibert, Todd Scheibert

Sustainable Honolulu—Steve Holmes

The Gas Company—Keith Yoshida, Steve Golden, Charlie Senning

Tower Design Group—Michael Krijnen

Trane Company—Danny Fujikawa

U.S. Air Force (Hickam)—Dave Stiner

U.S. Department of Energy Pacific Liaison—Eileen Yoshinaka

University of Hawaii School of Architecture—Alex Maly

WELCOME AND INTRODUCTIONS

Jim Maskrey, President, welcomed the group and spoke about the objectives of this meeting.

Steve Luckett reported on the FEMP Saving Energy Workshop held May 24-26, 2004, for federal, state, and local government and a partnership formed between HECO and several Hawaii ESCO's to implement energy savings in federal facilities.

Eileen Yoshinaka talked about the National Meeting of State Energy Program and Rebuild America Program representatives held in May in Minneapolis. She congratulated the winners of the 2004 Energy

Smart America Partnership Team Award--DBEDT, Department of Education, Department of Accounting and General Services, Hawaiian Electric Company, Inc., and the University of Hawaii School of Architecture.

John Cole, Division of Consumer Advocacy, introduced his Division and **Brysen Poulton**, Education Specialist. Cole explained that the Division of Consumer Advocacy is a state agency that protects and represents consumer interests before the Hawaii Public Utilities Commission, the Federal Communications Commission, and other local and federal agencies with regulatory jurisdiction over telecommunications, transportation, power generation and distribution, private water and wastewater facilities, and other similar public utilities. He emphasized that the Division is working to promote efficient use of energy resources through community awareness. Cole said that the Division shares many of the same goals of the Consortium and looks forward to becoming a member and working closely with all involved

REBUILD HAWAII CONSORTIUM PROJECT FINAL REPORTS

Sustainability Workshops—Jim Maskrey reported that three of the four workshops scheduled under this Rebuild America grant had been completed. The objective of the workshops was to create an informed and trained architectural and engineering design community and to encourage them to utilize sustainable development in their designs. The Workshops include: Daylighting and Lighting Controls, Indoor Air Quality Mitigation Through Design, Building Energy Simulation for Sustainable Design of Buildings, and Energy Management Controls. An additional four workshops will be given beginning January 2005.

West Hawaii Explorations Academy—Ray Carr reported on this innovative educational program funded as part of a Rebuild America grant to the County of Hawaii. In addition to raising awareness and understanding of energy matters for the students at the Academy, the program will be incorporated into its on-going curriculum. The Academy's Aloha Kai outreach program introduced basic elements of renewable energy to thousands of grade school students, parents, and visitors to NELHA, relied on support from this project to enhance science and energy aspects of their outreach program.

Energy Smart Schools II—Sam Nichols reported on this project, managed by HECO, which built on two prior schools projects: the 200/01 Energy Smart Schools Project on Oahu and the Maui Smart Schools project which involved all Maui public schools' lighting being audited and benchmarked. The Energy Smart Schools Project is a multidisciplinary energy conservation project designed to incorporate hands-on math, science, and computer, marketing, advertising, and public speaking skills. Students also audited private small businesses and prepared reports for owners based on the knowledge gained from the classroom. To date four high schools on Oahu have participated in this program. The program received support from Darren Kimura, Energy Conservation Hawaii.

REBUILD CONSORTIUM MEMBER PROJECTS

Honolulu Hale Project—Allyn Lee described the performance of the CHP system installed by Johnson Controls at Honolulu Hale. The system has been in full operation for only three months, and to date, is not showing additional savings of those previously achieved by their energy retrofits that included lighting improvements, chiller replacements, and controls.

IIDA program regional awards—Howard Wiig, IES, presented two regional awards. The first went to Bob Martin for a lighting retrofit carried out at 1152 Bishop Street Parking Garage and the second, to Bill Nutting for a retrofit of helicopter maintenance facility lighting.

1132 Bishop QL Induction System—Bob Martin presented information on improvements to parking garage lighting that involved replacing 234 hot-running high-pressure sodium lighting with “QL Induction” lamps, reducing energy consumption by 38%, and providing far better illumination to users as well as improved security.

Marine Corps Base Hawaii Hanger Bay Lighting Improvements—Bill Nutting presented information on a lighting retrofit that replaced 72 1000-Watt hot-running metal halide lamps with 122 400-Watt dual reflector metal halide Stingray lamps that gave a 50% reduction in energy usage, due, in part, to some installed timer controls and daylighting. Project payback was 4.5 years. Working conditions have been much improved.

GUEST SPEAKERS

Dr. Tim Lipman of the newly-formed **Pacific Regional CHP Application Center (PAC) Network** discussed the motivation to set up this Center and U.S. DOE’s challenge to increase combined heat and power systems (CHP) nationwide from 46GW to 92GW by 2010. States involved in the PAC network include California, Nevada, Hawaii and the Pacific Territories. Universities involved include UC Berkeley, UC Irvine, and San Diego State. Lipman is hoping for University of Hawaii involvement as well. The mission of the center is to develop technology to reduce the risk and to foster implementation of CHP projects. Strategies focus on education, infrastructure, and project assistance. Website is www.chpcenterpr.org.

Kevin Vacarello gave a high-level presentation of “Sustain Hawaii” a regional network of businesses, services and products. He said that businesses are reshaping themselves to achieving more sustainability in their operations and “Sustain Hawaii” would be a local umbrella to assist by: (1) building awareness and understanding; (2) conducting business assessments; (3) Creating visioning and strategic plans; and (4) supporting effective step-by-step implementation.

Jim Wollam gave an informative and useful presentation about the latest technologies in **solar outdoor lighting** and projects in Hawaii. Hawaii solar lighting projects can be found on Maui, Kauai and Oahu, and at Air Force, Coast Guard, Navy Housing, Army, and other federal facilities. Wollam’s presentation covered the basics of solar lighting, its benefits, how to design such systems, and unique features of various systems. Wollam’s company, Sol, Inc., is located in Florida.